MEMORANDUM Department of Ecology

Publication No. 72-e06

TO:	John Glynn	DATE: October 24, 1972
FROM:	Ron Devitt	
SUBJECT:.	Auburn Pack	

On September 27, 1972, Hans Cregg and I did a survey on Auburn Pack. John Glynn and Ed Rutkosky conducted dye tracing of the drains in the truck wash area.

Influent samples were taken from the discharge pipe of the rotary screen. There is no good sampling point before the screen, so the efficiency of the screen was not determined.

Effluent samples were obtained from the 90° V notch weir. Since the clarifier is pumped empty every night, there is no discharge from the chlorine contact chamber until the clarifier fills up and begins overflowing.

Although there was no flow through the chlorine contact chamber until 1220 hours there was a discharge to the river, indicating that some of the wastewater is not routed through the treatment system.

A thirty minute settleability on the sludge return from the clarifier was 150 ml. Total suspended solids on the sludge return was 1960 ppm.

The location of the outfall at the river is across the road from the northeast corner of the fenced pasture.

RD:bj

STP SURVEY REPORT FORM

(EFFICIENCY STUDY) Lagoons

Industry Aubumn Back	Diana Tana	agoons	1		
XXXXXX Auburn Pack	Plant Type_c	Serv	ed	Desi Capa	lgn
P eiving Water Gre				-	
Date 9/27/72	Survey Period	1100-1600	Surve	y Personnel Ro	n Devitt, Hans Cregg
Comp. Sampling Freque		Weather Con	ditions_ urs)	Clear	
Sampling Alequot	1000 m1/sample				
Discharge	500 gallone in 0 h	PLANT OPERATIO		00 ⁰ V notah	
* Total XXXX 37 Max. (Flow) Steady a .1 MGD	t Time of Max.	M	in	level recorde	er of Min.
Pre Cl ₂	#/day	Post Cl ₂ ?		/day	
* Does not inclu	de water to fill cl	arifier		•	
		EFFID DECIT OF			
77	Influe:	FIELD RESULTS		neel	
<pre>11 influent 8 effluent</pre>	TILLUE.	1		Effluent	}
Determinations	Max. Min. Me	an Median	Max. M	fin. Mean	Median
უ. °C		.7 15	13	9 9.8	9
P Co nductivity	8.0 6.8 7	.3 7.2	6.4 6	.2 6.3	6.4
(umhos/cm)					
Settleable Solids	19 2.5 8	.7 9.0	05 T	race Nil	Nil
	LA BORATORY	RESULTS ON COM	POSITE IN	PPM	
	Influent	Effluent		% Reductio	n
Laboratory Number			1		
5-Day BOD	710	217		69	
COD	1900	217		88	
T.S. T.N.V.S.	1520	778		48	
T.S.S.	326 911	455 125		86	
N.V.S.S.	<u> </u>	123	<u> </u>		
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Conductivity	the two times		;		
Turbidity	unit can still			And the second s	landa parameteriani-ministratur valoritari-majorita-sagrampid-sagrampid-sagram-majorita-sagram-majorita-sagram

Total Grease __rab samples)

88

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BACTERIOLOGICAL RESULTS

125203	added	to	sample	After	min
4 4 3					

LAB #	SAMPLING TIME	COLONIES/100 MLS (MF)		360 sec. Residual
	Table 1		ppm	(after secs)
Influent	1100	1,000,000		
Effluent	1400	<200	.15	.50
Effluent	1445	<200	.5	>1.0
N. Carlotte and Ca				

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STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

Pete Hildebrandt, Ron Pine, Ron Devitt, and files.

July 25,1972

John H. Glynn

SURVEY REQUEST - Auburn Packing Company, Inc., Auburn, Washington

OBJECTIVE: To determine the effectiveness of the plant waste treatment system.

John Glynn

Auburn Packing Company processes approximately 250 head of cattle per day and has a waste flow volumne of 85,000 - 90,000 gallons per day. A new sewage treatment system consists of an anaerobic cell followed by an aerobic cell and a final clarifier from which sludge is pumped back into the aerobic cell. Effluent is chlorinated. The aerobic cell is considered by its design engineer to be an activated sludge process. The plant effluent is brown in color and there are some solids carried over.

We wish to determine whether this plant is providing an acceptable degree of treatment prior to discharge to the Green River and whether we can consider approving similar systems for other packing plants in the region.

Information desired:

1.	301)	Stations:						
2.	COD				à,			
3.	Suspended Solids		1,	2,	3,	ц,	5,6	
L.	Settleable Solids		1,	6				
5.	HH.		1,	6		/ -	13	
6.	Grease (Hexane Extraction)	1,	2,	6 /	3	OXYALIT	feasily)
7.	Coliform (Total)		1,	6*	()	6	f /	3061

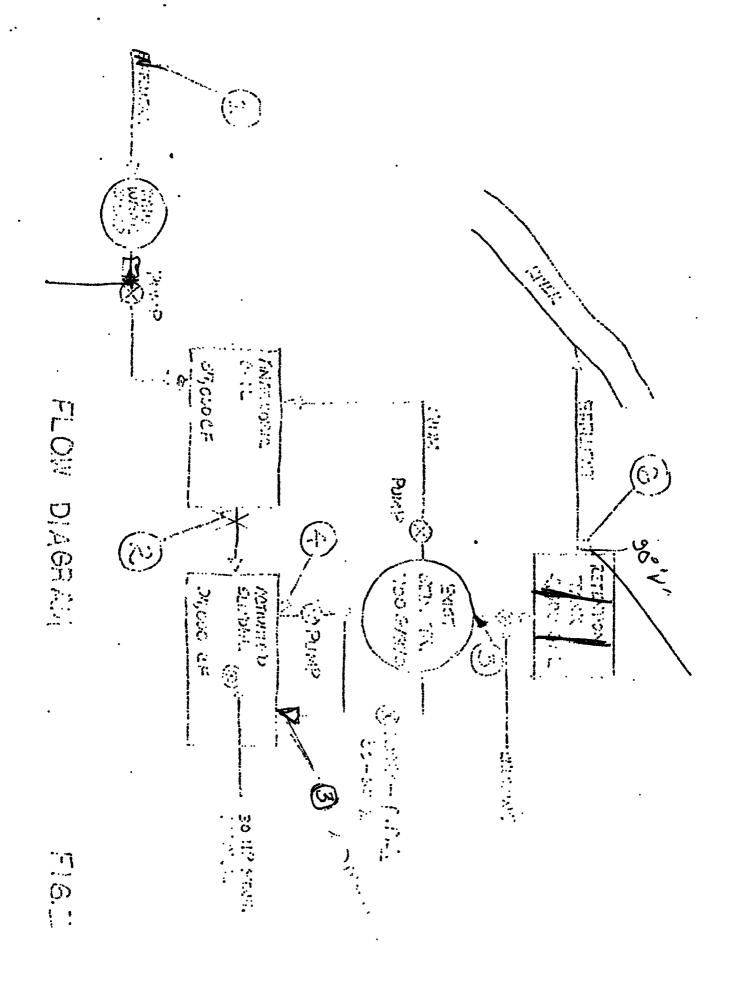
^{*}Sample should be dechlorinated.

I would like to be present during the survey if possible.

JHG:mk

7-25-72 (dd)

7-25-72 (dt)



STATE OF WASHINGTON DEPARTMENT OF ECOLOGY OLYMPIA, WASHINGTON

In accordance with Chapter 90.48 RCW, and Chapter 372-24 W.A.C.

A WASTE DISCHARGE PERMIT is issued to:

Permit No. 3827

Date of Issue August 23, 1971

Date of Expiration August 23, 1976

Auburn Packing Company, Inc. P.O. Box 519 Auburn, Washington 98002

Waste from the permittee's industrial operation located at Auburn, Washington, not exceeding 150,000 gallons per day may be discharged to the Green River at the following point of discharge: The Southside of Green River, about 1/2 mile above the mouth of Soos Creek.

Said discharge is authorized subject to the following conditions:

- 1. The word "waste" in the above statement refers to the total volume of contaminated industrial wastewaters to be discharged.
- 2. The following waste prevention practices are to be used to eliminate excessive losses of solids and high atrength waste waters to the treatment system.
 - A. Blood collection with sufficient hanging time to allow efficient collection of the kill blood shall be provided at all times. The blood collected shall be disposed of by drying or by a method approved by this Department.
 - B. Collection of paunch and stomach contents. This may be done by handling the material dry, or by use of a fine mesh screen as approved by this Department.
 - C. Dry cleaning of floors for the collection of grease and meat particles, prior to wet cleaning.
 - D. Blood, paunch contents, grease and meat particles, other solids collected, hair, holding pen manures and wastes from trucks are to be sold, used as fertilizer or disposed of in such manner to prevent their entry into state waters.
- 3. Wastewaters remaining after the above prevention measures are to be discharged to a secondary waste treatment facility consisting of the following units as approved by this Department:
 - A. An anserobic lagoon with activated sludge return.
 - B. An aerobic lagoon with two floating mechanical aerators.
 - C. A clarifier, converted from the original grease flotation tank.

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- D. A chlorination unit and baffled chlorine contact tank.
- E. An outfall to the Green River.
- 4. The treatment plant of condition 3 above, shall be operated to continuously produce the following treatment:
 - A. 85% minimum BOD_5 (biochemical oxygen demand) reduction.
 - B. 90% minimum suspended solids reduction.
 - C. Less than 50 mg/l total grease, as determined by the hexane extraction method, remaining in the final effluent.
 - D. Minimum flash chlorine residual of 0.5 mg/l after 20 minutes detention time at peak daily flows.
- 5. The final discharge from the treatment plant shall be to the Green River.
- 6. Continuous acration shall be applied to the aerobic lagoon cell, 24 hours per day.
- 7. In the event of a breakdown of any unit in the treatment system which will adversely affect the quality of the discharged wastes, the plant must be immediately shut down until necessary corrections are made.
- 8. Sanitary wastes must be disposed of in accordance with the requirements of the Seattle-King County Health Department.
- 9. In the event a sanitary sewer becomes available within the term of this permit, all industrial and domestic wastes shall immediately be intercepted to that sewer, and all treatment facilities abandoned.
- 10. If sludge beds or scum blankets build up on the treatment lagoons to the extent that the plant efficiency drops below the requirements of condition 4 of this permit, the excess materials shall be removed and disposed of as solid wastes in an approved manner.
- 11. If nuisance odors or insect populations result from the operation of the treatment unit, additional restrictions may be made to correct the problem(s).
- 12. Sludge or floating material removed from the clarifier shall be sold, utilized or disposed of as solid waste, and shall not be discharged to any state waters.
- 13. No fleshings, blood, viscera or other waste products shall be discharged to the Green River.

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14. Daily operation tests are required insure that the facility is operating at its highest level of efficiency. Operation test results must be maintained at the plant and be available to Department of Ecology personnel upon request and copies of results may be required to be mailed to Department of Ecology upon request.

The following daily tests and information must be maintained:

- A. Total daily kill.
- B. Total daily effluent flow.
- C. Effluent dissolved oxygen.
- D. Influent and effluent settleable solids.
- E. pH
- F. Chlorine residual and pounds per day used.
- G. Influent Biochemical Oxygen Demand.
- H. Effluent Biochemical Oxygen Demand.

The BOD tests shall be made weekly during the first three months. Then, if facility is producing uniform satisfactory results, the BOD tests shall be made monthly.

15. In the event the permittee is temporarily unable to comply with any of the above conditions of this permit, due to breakdown of equipment or other cause, the permittee is to immediately notify this department. This report is to include pertinent information as to the cause and what steps are being taken to correct the problem and prevent its recurrence.

This permit does not allow the discharge of wastes other than those mentioned herein. A new application shall be submitted whenever a change in the waste to be discharged is anticipated.

This permit is subject to termination if the department finds: (1) That it was procured by misrepresentation of any material fact or by lack of full disclosure in the application: (2) That there has been a violation of the conditions thereof; (3) That a material change in quantity or type of waste disposal exists.

In the event that a material change in the conditions of the state waters utilized creates a dangerous degree of pollution, the department may specify additional conditions to this permit.

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Nothing in this permit shall be construed as excusing the permittee from compliance with any applicable federal, state, or local statutes, ordinances, or regulations including those administered by local agencies under the Shoreline Management Act of 1971.

Signed

Executive Assistant Director

Department of Ecology

STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

WATER QUALITY LABORATORY

DATA SUMMARY LAB FILES

ORIGINAL TO:

COPIES TO:

R. Deviti

Source AUBURN PACE	RING	_				Со	llecte	d By	Rel	<u> </u>		
Date Collected 9-27		_				Go	al, Pr	o./Obj	3_	2.2	, 3	
Log Number: 7236	31	32 10/F	,_33	34	35	36	137	38	39	40 160	47	STORET
Station:	Comp	6-RA6 1445	EFF.	1445	1600	RTW.	INF	CLZ	EFF	EFF	_	
ЭН								•				00403
Turbidity (JTU)	ļ									_		00070
Conductivity (umhos/cm)@25c										.		00095
COD	1900		217					-				00340
30D (5 day)	710		46.					·		1_1	_	00310
Cotal Coliform (Col./100ml)							1, 000, 000	<u> </u>	(100	500		31504
Secal Coliform (Col./100ml)									<u> </u>			31616
N∩3-N (Filtered)												00620
NO2-N (Filtered)	ļ									ļ		00615
NH3-N (Unfiltered)	2.6		29					·		ļ		00610
. Kjeldahl-N (Unfiltered)										ļļ.		00625
)-P04-P (Filtered)	ļ									 	_	00671
Cotal PhosP (Unfiltered)										<u> </u>		00665
Cotal Solids	1520.		778.							<u> </u>		00500
Total Non Vol. Solids	326		455.							<u> </u>		
Cotal Suspended Solids	911.		125.		. <u> </u>	1960				 		00530
Cotal Sus. Non Vol. Solids										<u> </u>		
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